

# SYMMETRIC ELECTRICAL CONNECTION SYSTEM

## Abstract

A symmetric electrical connection system for balancing impedance between a first node and a third node and impedance between a second node and a fourth node. The system includes a first conducting wire, a third conducting wire, a fifth conducting wire, and a seventh conducting wire all installed in a first layer. The system further includes a second conducting wire, a fourth conducting wire, a sixth conducting wire, and an eighth conducting wire all installed in a second layer. The first conducting wire and the eighth conducting wire are crossed but electrically insulated. The second conducting wire and the third conducting wire are crossed but electrically insulated. The fourth conducting wire and the fifth conducting wire are crossed but electrically insulated. The sixth conducting wire and the seventh conducting wire are crossed but electrically insulated. In a preferred embodiment, the appearances and the materials of the conducting wires are essentially equivalent.